

Title (en)

DEVELOPMENT CARTRIDGE AND ELECTROPHOTOGRAPHIC IMAGE FORMING APPARATUS USING THE SAME

Title (de)

ENTWICKLUNGSKARTUSCHE UND VORRICHTUNG ZUR ERZEUGUNG ELEKTROFOTOGRAPHISCHER BILDER DAMIT

Title (fr)

CARTOUCHE DE DÉVELOPPEMENT ET APPAREIL DE FORMATION D'IMAGES ÉLECTROPHOTOGRAPHIQUES LA COMPORTANT

Publication

**EP 3321744 B1 20181219 (EN)**

Application

**EP 17176176 A 20170615**

Priority

KR 20160151308 A 20161114

Abstract (en)

[origin: EP3321744A1] Provided is a development cartridge mounted on a main body of an image forming apparatus. The development cartridge includes a photoconductive unit, a developing unit coupled to the photoconductive unit so as to rotate to a development position and a release position, and an elastic member that provides an elastic force to maintain the developing unit at the development position. A switching member is mounted on a rotation shaft of the developing roller to be rotatable about a rotation shaft of a developing roller. The switching member is switched to a first state where the switching member contacts an interfering portion of the photoconductive unit and rotates the developing unit to the release position and to a second state where the switching member is separated from the interfering portion and allows the developing unit to rotate to the development position due to the elastic force of the elastic member.

IPC 8 full level

**G03G 21/18** (2006.01)

CPC (source: CN EP KR US)

**F16D 11/06** (2013.01 - KR); **F16D 11/08** (2013.01 - KR); **F16H 19/001** (2013.01 - KR); **F16H 53/02** (2013.01 - KR); **G03G 15/0173** (2013.01 - US); **G03G 15/04** (2013.01 - US); **G03G 15/0806** (2013.01 - CN); **G03G 15/0865** (2013.01 - US); **G03G 21/1647** (2013.01 - CN KR); **G03G 21/1676** (2013.01 - CN); **G03G 21/1821** (2013.01 - US); **G03G 21/1825** (2013.01 - EP US); **G03G 21/1853** (2013.01 - US); **G03G 21/1857** (2013.01 - EP US); **G03G 15/757** (2013.01 - EP US); **G03G 21/1647** (2013.01 - EP US); **G03G 21/1676** (2013.01 - EP US); **G03G 2221/1657** (2013.01 - KR)

Cited by

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Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

**EP 3321744 A1 20180516**; **EP 3321744 B1 20181219**; CN 108073056 A 20180525; CN 108073056 B 20220614; EP 3447587 A1 20190227; EP 3447587 B1 20230726; ES 2705439 T3 20190325; ES 2956774 T3 20231227; KR 102448605 B1 20220928; KR 102469582 B1 20221122; KR 20180054024 A 20180524; KR 20210135467 A 20211115; KR 20220136966 A 20221011; PL 3321744 T3 20190731; PL 3447587 T3 20231009; TR 201821307 T4 20190121; US 10698362 B2 20200630; US 11112750 B2 20210907; US 2018136604 A1 20180517; US 2020272093 A1 20200827

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